# GUILFORD COUNTY DEPARTMENT OF PUBLIC HEALTH DIVISION OF ENVIRONMENTAL HEALTH

## APPLICATION FOR PERMIT TO CONSTRUCT A MONITORING/RECOVERY WELL SYSTEM

Da	ate: 4/21/97
and	accordance with the provisions of the Guilford County Board of Health Rules and Regulations Governing the Construction Abandonment of Monitoring and Recovery Wells, application is hereby made for a permit to construct mitoring/recovery wells.
1.	Site Name: Former Summit Avenue Sunoco Incident #: 10141
2.	Address of Well: 1103 Summit Avenue, Greensboro, NC
3.	Name of Well Owner: Sun Company, Inc. Telephone: 610-859-5705
4.	Owner's Mailing Address: 4041 Market Street, Aston, PA 19014
5.	Property Owner (if different from well owner):
	Property Owners' Mailing Address:
	Reason for Monitoring Well(s): Environmental Assessment
	(e.g. nondischarge permit, suspected contamination, environmental assessment, etc.)
8.	Type of facility for which the well is needed: Underground Storage Tank
	(e.g. nondischarge facility, waste disposal site, landfill, underground storage tank, etc.)
9.	Contaminant type (if applicable): Organics
	(e.g. nutrients, organics, heavy metals, etc.)
10.	Are there existing recovery wells associated with the monitoring well(s)? NO
	If yes, how many? Number of new/additional recovery well(s) to be installed
11	Distance to a known waste or pollution source: Various feet
12.	Are any water supply wells located <500 feet from the proposed well? No  If yes, give distancefeet
13.	Well Driller: Various' Fee: \$ 200 -
14.	Registration #: Various Date Paid: 5.5-97
15.	Driller's Address: Various Receipt#: 15-37 2
	Telephone:
	:

#### PROPOSED MONITORING/RECOVERY WELL CONSTRUCTION INFORMATION

1.	Total number of wells to be constructed: 10 Number to be completed in bedrock: None
	Number to be completed in unconsolidated material: 10
2.	Estimated depth of well(s): 30 feet
3.	Gravel or sand pack interval (if appropriate): From 15 feet to 30 feet
4.	Type of casing used: PVC
	(i.e. PVC, stainless steel, galvanized steel, etc.)
5.	Diameter of casing: 4 & 2 inches Thickness of casing: inches
6.	How will the well(s) be secured? Locking Well Cap
7.	Beginning construction date: Existing Wells
8.	Completion date: Not applicable
<u>AI</u>	DDITIONAL INFORMATION
1.	ATTACH A SITE MAP SHOWING THE LOCATIONS OF THE FOLLOWING:
	(a) PROPOSED MONITORING/RECOVERY WELL(S)
	(b) ALL EXISTING MONITORING/RECOVERY WELLS AND TEST BORINGS WITHIN THE PROPERTY BOUNDARY
	(c) ALL WATER SUPPLY WELLS WITHIN 500 FEET OF THE WELL
	(d) AT LEAST TWO REFERENCE POINTS (e.g. numbered roads, intersections, streams, etc.)
DE	PROVIDE A WELL CONSTRUCTION DIAGRAM OF EACH WELL SHOWING DIAMETER, ESTIMATED PTH, SCREEN INTERVALS, SAND/GRAVEL PACKS, TYPE OF CASING MATERIAL, CASING WALL ICKNESS, WELL HEAD COMPLETION DETAILS, ETC.
Go	e Applicant hereby agrees the proposed well(s) will be constructed in accordance with approved specifications and additions of the Well Construction Permit as regulated under the Guilford County Board of Health Rules and Regulations verning the Construction and Abandonment of Monitoring and Recovery Wells and accepts full responsibility for appliance with these rules.
Sig	mature of Applicant or Agent Title
COL	ne property is owned by someone other than the applicant, the property owner hereby consents to allow the applicant to astruct monitoring wells as outlined in this application and that it shall be the responsibility of the applicant to ensure that se monitoring/recovery wells conform to the Guilford County Board of Health well construction standards.
Sig	mature of Property Owner (if different from applicant)

DYTERON OF ENTROPHENTAL MUNICIPAL - GROWNING REPLECTED AND SHORT (111) SHORT (112) SHORT (113) SHOTT (113) SHORT (113) SHOTT (113) SHORT (113) SHORT (113) SHORT (113) SHORT (113) SHORT (

#### WELL CONSTRUCTION RECORD

2**(3** 

,	FOR OFFICE USE ONLY
Oved Ha	
	Long Po
	GW-1 Ent

DRILLER REGISTRATION NUMBER		YELL CONSTRUCTION 40-1070-WY-049
1. WELL LOCATION: (Show sketch of the besten below)  Negrest Towns Greensbore, 115	County:	Taillford
(Road, Community, or Subdivision and Lot No.)	Depth	DRILLING LOG
2. OWNER Sunoco/Mid-State Oil Company	From	To Formation Description
ADDRESS 1835 Market St. 11 Penn Ctr. 9th Floor (Street or Route No.) Philadelphia PA 19103 Chy or Town State Zip Code		MW−1
3. DATE DALLED 12/3/92 USE OF WELL Monitoring		
4. TOTAL DEPTH 22 ft CUTTINGS COLLECTED Yes No	·	
5. DOES WELL REPLACE EXISTING WELL? Y YOU THE	- <del></del>	<del></del>
6. STATIC WATER LEVEL: FT. Dabove TOP OF CASING.		
TOP OF CASING IS FT. ABOVE LAND SURFACE	<del></del>	
7. YIELD (gpm): N.A. METHOD OF TEST N.A.	<del></del>	
8. WATER ZONES (SOPIN):		
N.A.		
9. CHLORINATION: Type N.A. Amount N.A.		
10. CASING:  Wall Thickness  Depth Diameter or Weight Ft. Material	H add	Nonal space is needed use back of form.
From To Ft PVC	(Show direct	LOCATION SKETCH, ion and distance from at least two State Roads reference points)
From To F1		
11. GROUT: Depth Material Method		·
From 0 To 3 Ft. Neat Cement Tremie	c a a	Mandanata Hall v
From To Fl	see	Monitoring Well Location Map
12. SCREEN:		
Depth Diameter Slot Size Material From 5 To 20 Ft. 4 h 0.010 h PVC		
From To Ft h h		
From To Ft h h		
13. GRAYEL PACK:		
Depth Size Material		
From 4 to 20 Ft, Sand		
From To F1		•
14, REMARKS:	<del></del>	<u> </u>
I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN	ACCORDANC	E WITH 15 NOAC 20, WELL CONSTRUCTION
_Ocor	<u>· ( ·   / </u> ~	2/23/93
SIGNATURE OF CON  GW-1 Revised 11/A4 Submit original to D		CENT DATE  DATE  DATE  DATE  DATE

### GROUND-VATER MONITORING VELL INSTALLATION RECORD JOB NAME Summit Ave Sunoco JOB NUMBER \_\_\_\_ 259-90007-01 VELL NUMBER \_\_\_\_\_\_\_ GROUND SURFACE ELEVATION \_\_\_\_\_ LOCATION \_\_\_\_\_ Greensboro, North Carolina INSTALLATION DATE \_\_\_\_\_\_ December 3, 1992 COVER ASSEABLY VITH GROUND SURFACE -REMOVEMBLE STEEL COVER LOCKABLE PVC CAP ---CEROUT ---DEPTH TO BASE OF CROUT SEAL 18 - INCH BORING -3.0 ft DEPTH TO 4- INCH PVC PIPE -SAND BACKFILL 4.0 ft TOTAL DEF OF VEI BENTONITE SEAL -22.0 (1.0 FT THICK AINIMUNI SAND -DEPTH OF PVC SCREEN PVC SCREEN ----5.0 to 20.0 ft (SLOT SIZE 8,010 INCH)

HAVE SCREV CONNECTORS

14

## CANDIOU OF DULBOLEVANDE WASHINGTON TO DESCRIPTION OF DULBOLEVANDE WASHINGTON OF DULBOLEVANDE WASHINGTON OF DULBOLEVANDE WASHINGTON OF DULBOLEVANDE WASHINGTON OF DULBOLEVAND OF DULBOLEVAND WASHINGTON OF DULBOLEVAND OF

WELL	CONS	TRUCTION	RECORD
------	------	----------	--------

FOR	OFFICE USE ONLY
Qued Ha	Beriol No
Let	Long %
Minor Beste :	
Bach Code	
	GW-1 End
·	

1. WELL LOCATION: (Show Likelich et the lossifier below)  Negrent Tower Creensbore. NC  (Road, Community, or Subdivision and Lot No.)  (Road, Community)  (Road, Community, or Subdivision and Lot No.)  (Road, Commu	DRILLING CONTRACTOR Law Engineering  DRILLER REGISTRATION NUMBER 332	BTATE WELL CONSTRUCTION 40-1070-WY-0495
(Read, Community, or Subdivicion and Loi No.)  2. OWNER Sunoco/Mid-State Oil Company  ADDRESS 1835 Market St. 11 Penn CCT. 9th Floor Philadelphia FA 19103 City or frown State ZD Code  2. DATE DRILLED 12/19/2 USE OF WELL MONITORING 4. TOTAL DEPTH 25 ft CUTTINGS COLLECTED TYPE IND  5. DOES WELL REPLACE EXISTING WELL? I PT. I Babby I STO POF CASING, TOP OF CASONG IS FIT. ABOVE LAND SURFACE  7. VIELD (gom). N.A. METHOD OF TEST N.A.  8. WATER ZONES (Gooth):  9. CHEORINATION: Type N.A. Amount N.A.  9. CHEORINATION: Type N.A. Amount N.A.  10. CASING:  11. GROUT: Prom To FI.  11. GROUT: Prom To FI.  12. SCREEN:  13. GRAVEL PACK:  Dopth Diameter Shot Size Material From To FI.  13. GRAVEL PACK:  Dopth Size Material Sond PVC From To FI.  14. REMARKS:  1 DO HEREBY CEATIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH IS NOCE 2C. WELL CONSTRUCTION STANDANDS. AND THAT A COPT OF THIS RECOVE HAS SEED TO PO WE WAS TELL PACKE.  2 (23/93)		County Chilford
Great, Community, or Subdivision and Lot No.)  2. OWNER Sunoco/Mid-State Oil Company  ADDRESS 1835 Market St. 11 Penn Cft. 9th Floor Philadelphia FA 19103 City or form State Discovery No. 19103  2. DATE DRILED 12/19/2 USE OF WELL MONITORING 4. TOTAL DEPTH 25 ft CUTTINGS COLLECTED TYPE No 6. STATC WATER LEVEL: FT. 12 above 10P OF CASING, TOP OF CASING 18 FT. ABOVE LAND SURFACE 7. VIELD (gomb. N.A. METHOD OF TEST N.A. 8. WATER ZONES (Gorbh):  Depth Diameter of Weighter 14 From 0 to 5 Ft. 4-in Sch 40 PVC From To Ft.  11. GROUT:  Prom 0 to 5 Ft. 4-in Sch 40 PVC From To Ft.  12. SCREEN:  Depth Diameter Stot Size Material Network Prom To Ft.  13. GRAVEL PACK:  Depth Diameter Stot Size Material See Material From To Ft.  14. REMARKS:  Depth Size Material Send No. 19 PVC From To Ft. N.		Depth Drilling LOG
2. OWNER SUNCOMIG-State 0 it Company ADORESS 1835 Market St. 1. Penn Ct. 9th Floor Philadelphia City or Town State Dp. Code  2. DATE DAILED 12/1/92 USE OF WELL Monitoring A TOTAL DEPTH 25 ft CUTTINGS COLLECTED TO PO  5. DOES WELL REPLACE EXISTING WELL? VER DNO 6. STATIC WATER LEVEL: FT. 3 above TOP OF CASING, Dead of Code Code Code Code Code Code Code Code	·	
Philadelphia PA 1910 City or Yown State 20,0006  2. DATE DRILED 12/3/92 USE OF WELL MONITORING 4. TOTAL DEPTH 25 ft CUTTINGS COLLECTED (N) Yes UN6 5. DOES WELL REPLACE EXISTINO WELLY () Yes Q No 6. STATIC WATER LEVEL: FT. 0 above TOP OF CASING, TOP OF CASING IS FT. ABOVE LAND SURFACE 7. YIELD (gom). N.A. METHOD OF TEST N.A. 8. WATER ZONES (Gooth): 9. CHEORINATION: Type N.A. Amount N.A. 10. CASING: Well Thickness of Weight Material From 0 To 5 Ft. 4-in Sch 40 PVC From To Ft. Control of the Control	2. OWNER Sunoco/Mid-State Oil Company	
Philadelphia PA 1910 City or Yown State 20,0006  2. DATE DRILED 12/3/92 USE OF WELL MONITORING 4. TOTAL DEPTH 25 ft CUTTINGS COLLECTED (N) Yes UN6 5. DOES WELL REPLACE EXISTINO WELLY () Yes Q No 6. STATIC WATER LEVEL: FT. 0 above TOP OF CASING, TOP OF CASING IS FT. ABOVE LAND SURFACE 7. YIELD (gom). N.A. METHOD OF TEST N.A. 8. WATER ZONES (Gooth): 9. CHEORINATION: Type N.A. Amount N.A. 10. CASING: Well Thickness of Weight Material From 0 To 5 Ft. 4-in Sch 40 PVC From To Ft. Control of the Control	ADORESS 1835 Market St. 1) Penn Ctr. 9th Floor	See Soil Test Boring Log
City or Yown  State Dp.Code  2. Date Drilled 12/3/92 USE of Well Monitoring 4. TOTAL DEPTH 25 ft CUTTINGS COLLECTED 18 to 5. DOES WELL REPLACE EXISTING WELL? 1948 No  6. STATIC WATER LEVEL: FT. 3000's TOP OF CASING, TOP OF CASING 13 FT. ABOVE (AND SUBFACE)  7. YIELD (gom): N.A. METHOO OF TEST N.A.  8. WATER ZONES (Gooth):  10. GASING:  Depth Diameter Weight/FL From 0 To 5 FL 4-in Sch 40 PVC From To FL Fr	Philadelphia PA 19103	<u></u>
4. TOTAL DEPTH 25 ft CUTTINGS COLLECTED Yes No  5. DOES WELL RCPLACE EXISTINO WELLT Yes No  6. STATIC WATER LEVEL: FT. Dabors TOP OF CASING, TOP OF CASING IS FT. ABOVE LAND SURFACE.  7. VIELD (spm), N.A. METHOD OF TEST N.A.  8. WATER ZONES (depth):  9. CHECRINATION: Type N.A. Amount N.A.  10. CASING:  Depth Diameter of Weight Ft. Material From 0 To 5 Ft. 4-in Sch 40 PVC From To Ft. Sch 40 PVC  From To Ft. Sch 40 PVC  From 0 To 5 Ft. Neat Cement Tremie From To Ft. Sch 40 PVC  From T		
5. DOES WELL REPLACE EXISTING WELL?  Yes  No 6. STATIC MATER LEVEL:  FT. above 10 PO F CASING,		
5. DOES WELL REPLACE EXISTING WELL?  Yes  No 6. STATIC MATER LEVEL:  FT. above 10 PO F CASING,	4. TOTAL DEPTH 25 ft CUTTINGS COLLECTED Y YES 10 No	
6. STATIC WATER LEVEL: FI. Dabots TOP OF CASING, TOP OF CASING IS FT. ABOVE LAND SURFACE  7. YIELD (gpm). N.A. METHOD OF TEST N.A.  8. WATER ZONES (depth):  9. CHLORINATION: Type N.A. Amount N.A.  10. CASING:  Depth Diameter or Weight/File. From 0 To 5 Ft. 4- in Sch 40 PVC From To Ft.  From 0 To Ft.  11. GROUT:  Depth Material Netbod From 0 To 5 Ft.  12. SCREEN:  Depth Diameter Stot Size Material See Monitoring Well Location Map From To Ft.  12. SCREEN:  Depth Diameter Stot Size Material See Monitoring Well Location Map From To Ft.  13. GRAVEL PACK:  Depth Size Material Netbod From To Ft.  N.A.  Material Netbod See Monitoring Well Location Map From To Ft.  N.A.  N.A.  If additional space is needed use back of form.  10. CASING:  No discribe and distance from at least two State Reads, or other map reference points)  10. CASING:  Depth Material Netbod From 0 To Ft.  N.A.  Netbod See Monitoring Well Location Map From To Ft.  N.A.  N.A.  See Monitoring Well Location Map From To Ft.  N.A.  N.A.  See Monitoring Well Location Map From To Ft.  N.A.  N.A.  Netbod See Monitoring Well Location Map From To Ft.  N.A.  N.A.  Netbod See Monitoring Well Location Map From To Ft.  N.A.  N.A.  N.A.  Sharinal See Monitoring Well Location Map From To Ft.  N.A.	_	
TOP OF CASINO ISFT. ABOVE LAND SURFACE  7. YIELD (gpm). N.AMETHOO OF TESTN.A	· · · · · · · · · · · · · · · · · · ·	<u> </u>
7. YIELD (gpm): N.A. METHOD OF TEST N.A.  8. WATER ZONES (dopth):  9. CHLORINATION: Type N.A. Amount N.A.  10. CASING:  Dopth Diameter or Weight/FL Material  From 0 To 5 FL 4-in Sch 40 PVC  From 10 FL CATION EXETCH  From 10 To FL CATION EXETCH  Show direction and distance from at least two State Roads or other map reference points)  11. GROUT:  Dopth Material Nethod  From 0 To 3 FL Neat Cement Tremie See Monitoring Well Location Map  From To FL No. In.  12. SCREEN:  Dopth Size Material  From To FL N. In.  13. GRAVEL PACK:  Dopth Size Material  From To FL N. In.  From To FL N. In.  Dopth Size Material  From To FL N. In.  14. REMARKS:  I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE MITH IS NICAC 2C, WELL CONSTRUCTION STANDARDS. AND THAT A COPY OF THIS PECCOPO HAS SEEN PROVIDED TO THE WELL OWNER.  2/23/93	TOP OF CASING IS FT. ABOYE LAND SURFACE	
8. WATER ZONES (depth)  9. CHLORINATION: Type N.A. Amount N.A.  10. CASING:  Depth Dlameter of Weight? Material From 0 To 5 Ft. 4-in Sch 40 PVC From To Ft	·	
9. CHLORINATION: Type N.A. Amount N.A.  10. CASING:  Depth Dlameter of Weight/Ft. Material From 0 To 5 Ft. 4-in Sch 40 PVC (Show direction and distance from at least two State Reads, or other map reference points)  11. GROUT:  Depth Haterial Nethod From 0 To 3 Ft. Neat Cement Tremie See Monitoring Well Location Map From To Ft.  12. SCREEN:  Depth Dlameter Skri Size Material See Monitoring Well Location Map PVC From To Ft. h. h.  From 5 To 5 To 10 Ft. h. h.  From To Ft. Name No. 13. GRAVEL PACK:  Depth Size Material Nethod See Monitoring Well Location Map PVC From To Ft. Sand From To Ft. See Material Se		
Depth Diameter of Weight Ft.  From 0 To 5 Ft. 4-in Sch 40 PVC From To Ft.  Depth Material Nethod or offer map reference points)  11. GROUT:  Depth Material Nethod From 0 To 5 ft. Neat Cement Tremie From To Ft.  12. SCREEN:  Depth Size Material See Monitoring Well Location Map  From 5 To Ft. 4 h 0.010 h PVC  From To Ft. h h h  From To Ft. Sand  From To	8. WATER ZONES (GOOTH)	
Depth Diameter of Weight Ft.  From 0 To 5 Ft. 4-in Sch 40 PVC From To Ft.  Depth Material Nethod or offer map reference points)  11. GROUT:  Depth Material Nethod From 0 To 5 ft. Neat Cement Tremie From To Ft.  12. SCREEN:  Depth Size Material See Monitoring Well Location Map  From 5 To Ft. 4 h 0.010 h PVC  From To Ft. h h h  From To Ft. Sand  From To	N A	
Depth Diameter of Wall Increase Material  From 0 To 5 Ft. 4-in Sch 40 PVC  From To Ft. Sch 40 PVC  Trom To Ft. Sch 40 PVC  From To Ft. Material Material See Monitoring Well Location Map  From To Ft. No Material PVC  From To Ft. Sand  From To Ft. Sand	9, CHLORINATION: Type Amount _N.A.	
From 0 To 5 Ft. 4-in Sch 40 PVC  From To Ft. See Monitoring Well Location Map  From 0 To 5 To 5 To Ft. Sch 50 Material  From 5 To Ft. No. In	10. CASING: Wall Thickness	H additional space is needed use back of form.
From U To S FL 4-In Sch 40 PVC (Show direction and distance from at least two State Roads, or other map reference points)  11. GROUT:    Dopth		LOCATION SKETCH
From	From U To J Ft. 4-1n Sch 40 PVC	(Show direction and distance from at least two State Roads.
Depth Material Method  From 0 To 3 Ft. Neat Cement Tremie See Monitoring Well Location Map  From To Ft.  Depth Diameter Stat Size Material  From 5 To Ft. 4 n 0.010 n PVC  From To Ft. n h  From To Ft. n h  13. GRAVEL PACK:  Depth Size Material  From 4 To 20 Ft. Sand  From To Ft. Sand	From To Ft	or other map reference points)
Depth Material Method  From 0 To 3 Ft. Neat Cement Tremie See Monitoring Well Location Map  From To Ft.  Depth Diameter Stot Size Material  From 5 To 20 Ft. 4 to 0.010 to	From ToFh	
From 0 To 3 Ft. Neat Cement Tremie See Monitoring Well Location Map  From To Ft.  Depth Diameter Stot Size Material  From 5 To 20 Ft. 4 h 0.010 h PVC  From To Ft. h h  From To Ft. h h  13. GRAVEL PACK:  Depth Size Material  From 4 To 20 Ft. Size Material  From 5 To 20 Ft. Size Material  From 6 To Ft. Sand  From 10 Ft. Sand		
From To Ft	, , , , , , , , , , , , , , , , , , ,	
12. SCREEN:    Dopth   Diameter   Skxt Size   Material	· · · · · · · · · · · · · · · · · · ·	See Monitoring Well Location Map
From 5 To 6 FL 4 N 0.010 N PVC  From To FL N N N  From To FL N N  From To FL N N  From To FL N N  13. GRAVEL PACK:  Depth Size Material  From 4 To 20 FL Sand  From To FL  14. REMARKS:  I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL DWINER  2/23/93	From To Ft	
From 5 To FL 4 N 0.010 N PVC  From To FL N N.  From To FL N N.  13. GRAVEL PACK:  Depth Size Material  From 4 To 20 FL Sand  From To FL  14. REMARKS:  1 DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDENCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THES RECORD HAS BEEN PROVIDED TO THE WELL OWNER  2/23/93	12. SCREEN:	
From 5 To FL 4 N 0.010 N PVC  From To FL N N.  From To FL N N.  13. GRAVEL PACK:  Depth Size Material  From 4 To 20 FL Sand  From To FL  14. REMARKS:  1 DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDENCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THES RECORD HAS BEEN PROVIDED TO THE WELL OWNER  2/23/93	Depth Diameter Stot Size Material	
From To Ft N N.  From To Ft N N.  13. GRAVEL PACK:  Depth Size Material  From 4 To 20 Ft. Sand  From To Ft.  14. REMARKS:  I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NOAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL DWICE  2/23/93		
From To Ft. h h  13. GRAVEL PACK:  Depth Size Material  From 4 To 20 Ft. Sand  From To Ft.  14. REMARKS:  I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NOAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER  2/23/93		•
Depth Size Material  From 4 To 20 Ft. Sand  From To Ft.  14. REMARKS:  I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NOAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER  2/23/93		
Depth Size Material  From 4 To 20 Ft. Sand  From To FI.  14. REMARKS:  I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL DYNER  2/23/93		
From 4 To 20 Ft. Sand  From To FI.  14. REMARKS:  I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NOAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER  2/23/93		
From To FI		
14. REMARKS:  I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NOAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL DWINER  2/23/93	F10/11 10 11	
I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NOAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER 2/23/93		,•
2/23/93		IN ACCORDANCE WITH 15 NOAC 2C, WELL CONSTRUCTION
		2/23/93
GW-1 Review 11/44 Submit original to Division of Environmental Management and copy to well owner.		INTRACTOR OR ACENT DATE

## GROUND-VATER MONITORING VELL INSTALLATION RECORD

JOB NAME Summit Ave Sunoco	JOB NUMBER	259-90007-01
VELL NUMBER	GROUND SUR	FACE ELEVATION
LOCATION Greens	sboro, North Carolina	
INSTALLATION DATE	December 3, 1992	
CROUND SURFACE  LOCKABLE PYC CAP  CROUT  18 - INCH BORING  4- INCH PYC PIPE  BENTONITE SEAL  (1.8 FT THICK AINIANA)  SAND  PYC SCREEN  (SLOT SIZE 8.818 INCH)  CAP  NOTE: ALL PYC PIPE JOINTS	SEPTH BRASES  SOLIT S  A CONTROL S  A CONTRO	TO OF SAND BACKFILL.  4.0 ft.  TOTAL OF OF VALUE
HAVE SCREV CONFICTORS		

ş

E 1

HAW WILLY FLOW TO THE WAR WILLY WILLY WAS AN AND THE WALL TO THE WALL WAS AND THE WALL WAS AND THE WALL TO THE WALL WAS AND THE WALL TO THE WALL THE WALL TO THE WALL THE WALL

#### WELL CONSTRUCTION RECORD

	FOR OFFICE USE ONLY
Oved Ha	Serial No
Let	Long Po
Minor Basin L	
Besh Code	
Header Ent	GW-1 Cnt

DRILLER REGISTRATION NUMBER 332	BTATE WELL ( PERMIT NUMB	CONSTRUCTION 40-1070-1-0495
1. WELL LOCATION: (Show sketch of the location below)  Negrest Town: Greenspare, NC	County Cailt	ord ORILLING LOG
Goad, Community, or Subdivision and Lot Ho.)	Depin J	<del></del>
2. OWNER Sunoco/Mid-State Oil Company	From To	Formeton Description
	<del></del>	See Soil Test Boring Log
ADDRESS 1835 Market St. 11 Penn Ctr. 9th Floor (Street or Rough No.)		MW-3
Philadelphia PA 19103  City or Town State Zio Code		
Chy or Town State Zh Code  3. DATE DRILLED 12/3/92 USE OF WELL Monitoring		
	•	
4. TOTAL DEPTH 20 ft CUTTINGS COLLECTED Yes No		
5. DOES WELL REPLACE EXISTING WELL? THE THE THE		
6. STATIC WATER LEVEL: FT. D above TOP OF CASHQ,	<del></del>	
TOP OF CASING IS FT. ABOVE LAND SURFACE		
7. YIELD (gpm): N.A. METHOD OF TEST N.A.		***************************************
8. WATER ZONES (depth):		
9. CHEORINATION: Type N.A. Amount N.A.		
10. CASING:	H addhlonal	space is needed use back of form.
Depth Diameter of Weight/Ft. Material		LOCATION SKETCH
From 0 To 5 Ft. 4-in Sch 40 PVC	(Show direction as	nd distance from at least two State Roads.
From To Ft	or other map refer	
From To F1		
11. GROUT:		
Depth Haterial Method		
From 0 To 3 Fig. Neat Cement Tremie	See Mon	itoring Well Location Map
From To FL		
12. SCREEN:  Depth Diameter Skot Size Material		
5 _ 20 _ 4 . 0.010 . PVC		
· · · · · · · · · · · · · · · · · · ·		
From To ft h, h,		
From To R h h		
13. GRAVEL PACK:		
Depth Size Material		
From 4 To 20 Ft. Sand		
FromToFt		
14. REMARKS:		
I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED	IN ACCORDANCE W	ITH 15 NCAC 2C, WELL CONSTRUCTION
STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN AN		OTINER .
200	n ( .   // 🖵	<b>A</b>
SIGNATURE OF CO	MIRACTOR OR ACEN	2/23/93 T DATE

## GROUND-VATER MONITORING VELL INSTALLATION RECORD

J08 NAME	Summit Ave Sunoco	<del></del>	JOB NUMBER _	259-90007-01	······································
VELL NUMBER	RMW-3		GROUND SURFA	CE ELEVATION	
LOCATION -		Greensboro, :	North Carolina		
INSTALLATIO	ON DATE	December	r 3, 1992		-
CROUND SURF			COVER ASSEABLE S  READVEABLE S  DEPTH TO  BASE OF  GROUT SEA  3.0 ft	STEEL COMER	TOTAL DEP OF VEL 20_0 fr
PVC SCR	£EN		PVC SCREEN 5.0 to 2		
	(HOMI B18,8		<u> </u>	.0.0 16	
C.A	p				
NOTE: ALL	PVC PIPE JOINTS				

P.C. POX E1687 - RALENGIA E111/PHONE (\$18) 789-6086

#### WELL CONSTRUCTION RECORD

:84

Cued. Ha		FOR OFFICE USE ONLY	
Minor Bestin Bestin Code	Oved Ha	6erial No.	_
Minor Bestin Bestin Code	Let	Long Fo	_
		*	_
Header Ent. GW-1 Ent	Besh Code		_
(1000)	Header Ent	GW-1 Ent	_

DRILLING CONTRACTOR Law Engineering  DRILLER REGISTRATION NUMBER 332	STATE WELL CONSTRUCTION 40-1070-WM-0495
1. WELL LOCATION: (Show skelch of the location below)  No greet Towns Greensbore, NC  Oned, Community, or Subdivision and Lot No.)  2. OWNER Sunoco/Mid-State Oil Company  ADDRESS 1835 Market St. 11 Penn Ctr. 9th Floor (Sheel or Route No.)	County: Gailford  Depth DRILLING LOG  From To Formeton Description  See Soil Test Roring Log  MW-4
Philadelphia PA 19103  CHY OF TOWN SUMS DIP COOP  3. DATE DRILED 12/3/92 USE OF WELL MONITORINS  4. TOTAL DEPTH 21 ft CUTTINGS COLLECTED Yes No  5. DOES WELL REPLACE EXISTING WELL? Yes No  6. STATIC WATER LEVEL: FT. Dabove TOP OF CASING.	
TOP OF CASING IS FT, ABOVE LAND SURFACE  7. YIELD (gpm): N.A. METHOD OF TEST _N.A.  8. WATER ZONES (depth):  9. CHLORINATION: Type	
10. CASING:    Depth   Diameter of Weight/Ft.   Material	H additional space is needed use back of form.  LOCATION SKETCH.  (Show direction and distance from at least two State Roads, or other map reference points)
11. GROUT:  Depth Raterial Method  From 0 To 3 Ft. Neat Cement Tremie  From To Ft.	See Monitoring Well Location Map
12. SCREEN:    Dopth   Diameter   Slot Size   Material	
13. GRAVEL PACK:  Depth Size Material  From 4 To 20 Ft. Sand  From 70 Ft.	·
14. REMARKS:  1 DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED STANDARDS. AND THAT A COPY OF THIS RECORD HAS BEEN PE	SOUTCED TO UTE MELT OWNER

## GROUND-VATER MONITORING VELL INSTALLATION RECORD

• •

**P**\*4

VELL NUMBER	JOB NUMBER 259-90007-01 GROUND SURFACE ELEVATION
LOCATION	Greensboro, North Carolina
INSTALLATION DATE	
CROUND SURFACE	COVER ASSEABLY VITH  READVEABLE STEEL COVER
4- INCH PVC PIPE	3.0 ft  DEPTH TO TOP OF SAND BACKFILL.  A.0 ft  TOTAL DEP
BENTONITE SEAL(1.0 FT THICK AINIMA)	21.0
PVC SCREEN	DEPTH OF PVC SCREEN  5.0 to 20.0 ft

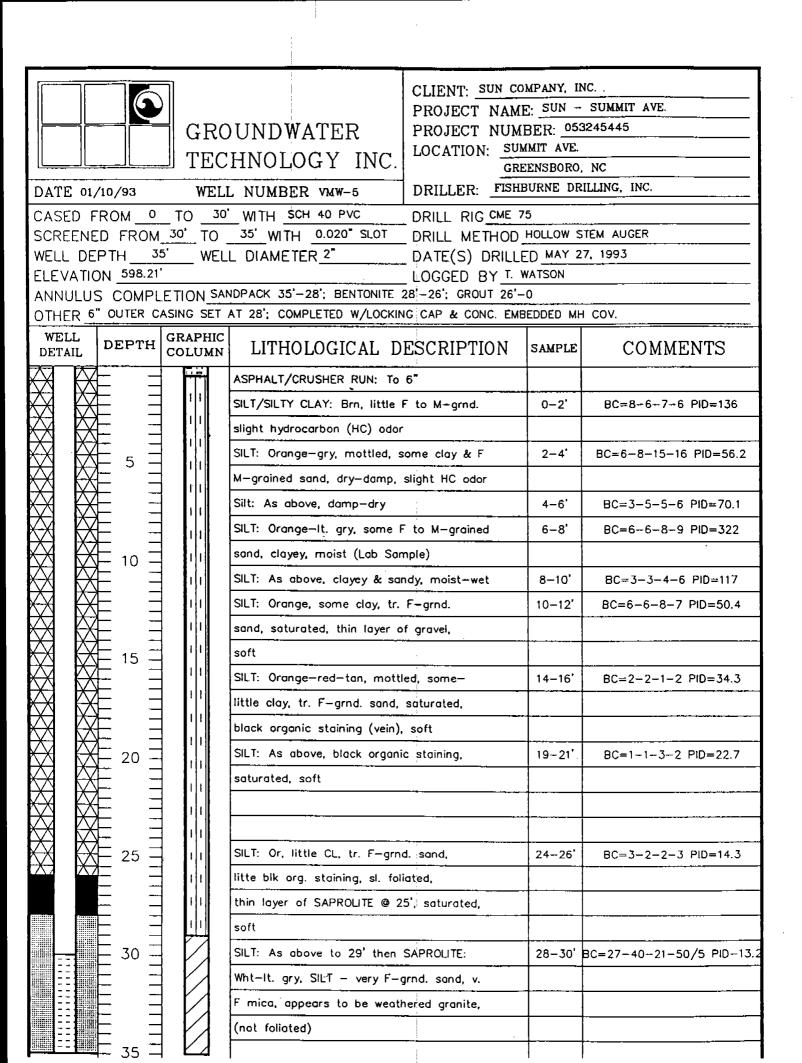
HORTH CAROLINA DEPARTMENT OF HATURAL MEROURCES AND COMMENTY DEVILOPMENT DIVISION OF ENVIRONMENTAL MANAGEMENT — OROUNDWATER RECTION P.O. BOX 27647 — RALEICHUNG, 27611, PHONE (818) 723—6013

#### WELL CONSTRUCTION RECORD

VMW-5

FOR	OFFICE USE ONLY
Qued. No.	Bedal Ho.
Lat	Long Pc
Basin Code	
Header-Ent.	

DRILLING CONTRACTOR FISHBURNS DRILLING, TIVE	STATE WELL CO PERMIT NUMBER	
. WELL LOCATION: (Show sketch of the location below)  Nearest Town: GREENSBORD, NC.  1103 Summer Ave.	County: Guilt	
(Road, Community, or Subdivision and Lot No.)	Depth	DRILLING LOG
OWNER SYN/MID-STATE OIL CO.	From To	Formation Description
ADDRESS 4041 MARKET ST. (Sireal or Route No.)		
ASTON PA 19014 City or Town State Zip Code	<del></del>	
1. DATE DRILLED 5/27+28/73. USE OF WELL Monitoring		(SEE ATTACHED
4. TOTAL DEPTH 35 CUTTINGS COLLECTED YES 10 HO	<del></del>	DRILL LOGS)
S. DOES WELL REPLACE EXISTING WELL? Yes A No		
6. STATIC WATER LEVEL: FT. D above TOP OF CASING,		
6. STATIC WATER LEVEL: FT. D shove TOP OF CASING, ST below TOP OF CASING IS FT. ABOVE LAND SURFACE.		
7. YIELD (gpm): METHOD OF TEST		
8. WATER ZONES (depth):	<del></del>	<del></del>
8. HATER ZONES (GEPHI).		
9. CHLORINATION: Type Amount		
10. CASING:	·	
Depth Diameter or Weight/Ft, Material	If additional a	space is needed use back of form.
From 0 To 30 Ft. 2" SCH 40 PVC		TOCATION EKETCH
		I distance from at least two State Road
From _ 0 - To 28 FI 6 SCH 40 PVC	or other map refere	ince points)
From To Ft		
11. GROUT:	1 1	
Depth Material Method		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
From 0 To 26 Fl. Portland Cement	MEDONALD'S RESTUARANT	
From 26 to 28 Fl. Bentonte	_ ==	
12. SCREEN:	1	STORE SHOOLING
Depth Diameter Slot Size Material		
From 30 To 35 Ft. 2 h 0.020 h. PVC		TAME
	- + 110-7	
From To Ft h, h	<del>.</del> //	// · · · · · · · · · · · · · · · · · ·
From To Ft ht ht ht		\$\tag{\psi} \tag{\psi}
13. GRAVEL PACK:		Silmant avenue
. Depth Blee Masorial		
From 28 To 35 FI. # 2 Washed Sand	_	<u>.</u>
FromTo Ft	<u>-</u>	
14. REMARKS:		



HORTH CAROLINA DEPARTMENT OF HATURAL PEROURCES AND COMMUNITY DEVELOPMENT DIVISION OF ENVIRONMENTAL MANAGEMENT — OROUNDWATER SECTION P.O. BOX 27647 — RALEIGHULC. 27611, PHONE (#18) 733-6013

#### WELL CONSTRUCTION RECORD

mw-6

FOI	R OFFICE USE ONLY
Quad. No.	Long Pc
Minor Basin	
Basin Code Header-Ent	QW-1-Ent

DRILLING CONTRACTOR FISHBURNE DRILLING, TIVE DRILLING, TIVE	STATE WELL CO	
Nearest Town:	County: Guil	5P.D
(Road, Community, or Subdivision and Lot No.)	Depth	DRILLING LOG
2. OWNER SYN / MID - STATES OIL CO.	From To	Formation Description
·		
ADDRESS 4041 MARKET ST.		
ASTON, PA 19014  City or Town State 26 Code	<del></del>	
		(c dunday)
1. DATE DRILLED 5/27/93 USE OF WELL Monitoring	<u></u>	(See ATTACHED
4. TOTAL DEPTH 28 COLLECTED THE DIE	·	DRILL LOGS)
S. DOES WELL REPLACE EXISTING WELL? YOU MIND	<del></del>	
6. STATIC WATER LEVEL: FT. D shove TOP OF CASING, SCHOOL TOP OF CASING IS FT. ABOVE LAND SURFACE.	<del></del>	<del></del>
TOP OF CASING IS FT. ABOVE LAND SURFACE.	·	<del></del>
7. YIELD (gpm): METHOD OF TEST		
8. WATER ZONES (depth):	<del></del>	
—————————————————————————————————————	<del></del>	<del></del>
9. CHLORINATION: Type Amount	<del></del>	
<u> </u>	`	
10. CASING:  Wat Thickness  Depth Diameter or Weight/Ft. Material	ii additional	space is needed use back of form.
From 0 To 3 FL 4" SCH 40 PVC		LOCATION SKETCH
		d distance from at least two State Roads
From To		ence pointey
From To Ft	-	
11. GROUT:		
Depth Material Method	Landidaya O-S	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
From O To 1' FI. Partland Coment	Medonalo-s RESTUARANT	
From 1 To 2 Fl. Bentonite	-	
12. SCREEN:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Depth Diameter Slot Size Material		+
From 3' To 23' Ft. 4" h 0.020 h PVC	_	Carry Company Tables
from To FL h h h.	/	arear / www.2
From To Ft ks ks	_	
13. GRAVEL PACK:		MACTIAL SALES
Depth Bigs Material		SUMMIT AVENUE
From 2 To 23 Fl. # 2 Washed Sand	<u> </u>	
FromToFL	<u> </u>	
14. REMARKS:		

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

			_	_	;		
	<u> </u>	il i	UNDWATE HNOLOGY		CLIENT: SUN CO PROJECT NAMI PROJECT NUM LOCATION: SUM GRE	g: sun – BER: 053	SUMMIT AVE. 245445
DATE 01,	/10/93	WEL	L NUMBER MW-	6	DRILLER: FISHE	BURNE DRI	LLING, INC.
SCREENE WELL DE ELEVATION ANNULUS	D FROM PTH 2 DN 597.57 S COMPL	3'TO_ 3'WEL .'	L DIAMETER 2"  NDPACK 23'-2': BEN	SLOT  NTONITE 2'	DRILL RIG CME 7 DRILL METHOD DATE(S) DRILLE LOGGED BY T. V -1': GROUT 1'-0 IBEDDED MANHOLE C	HOLLOW ST ED MAY 27 VATSON	-
WELL DETAIL	DEPTH	GRAPHIC COLUMN	LITHOLOGI	CAL DI	ESCRIPTION	SAMPLE	COMMENTS
			ASPHALT/CRUSHER	PUN: To	<b>6</b> "		<u> </u>
	L =		CLAY: Gry-blu, sar	•	•	0-2	BC= -10-11-14 PID=3.2
			sand, damp—dry	idy, sirty, i	to Margina.	0 2	
==:			CLAY: As above to	3' then S	SANDY SILT:	2-4	BC=2-3-5-6 PID=0.4
				Gry-tan-or, v. F to F-grnd. sand, F mica			
			mica, damp, some—little clay				
				SANDY SILT: Tan-It. or-bik, F to M-grnd.		4-6'	BC=3-6-10-10 PID=1.4
			<del></del>	sand, damp—dry, trace clay			
			SANDY SILT: Lt. gry—tan—or, F to C—grnd.		6-8'	BC=8-14-16-15 PID=4.9	
	<u></u> _		sand, iron staining, damp—dry, trace clay				
	_ 10 _		(Lab Sample)				
			SILTY SAND: Tan-It. or, F to M-grnd. sand		8-10'	BC=8-10-12-10 PID=2.1	
			grading to F-grnd. @ 9.5', damp-moist				
	<b></b> _		SILTY SAND/SANDY	SILTY SAND/SANDY SILT: Tan-wht-It. or. F		10-12	BC=9-10-9-8 PID=2.4
		1:1:1	to M-grnd. sand,	some mica	, moist-wet,		
	15 		slightly foliated				
			SANDY SILT/SILTY	SAND: Tan	n-wht-or, v. F	14-16	BC=4-5-5-6 PID=1.2
			to M-grnd. sand,	F mica, We	et-moist		
			SILTY SAND: Tan-	wht-It. or,	F to M-grnd.	19-21	BC=8-10-10-15 OID=29.1
		1	sand, moist-wet,	trace F mi	ca, slight		
	20	1	foliation	,	1		_
		1					
	_ =						
		- <b>L</b> ilil					
	<b>=</b> =	4					
	25 _	1			-		
	<u> </u>	1					
	⊢ –	-			1	1 7	

HORTH CAROLHA DEPARTMENT OF HATURAL RESOURCES AND COMMUNITY DEVELOPMENT DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION P.O. BOX 27647 - RMEXHULC. 27611, PHONE (#18) 733-6043

## WELL CONSTRUCTION RECORD

mw-7

FC	OR OFFICE USE ONLY
Quad. No	Bedal No.
Lat	Long Pc
Minor Basin	
Basin Code	
Header:Ent	QW-1-Ent

DRILLING CONTRACTOR FISHBURNE DRILLING, JIVA DRILLER REGISTRATION NUMBER 951	STATE WELL CO PERMIT NUMBER	
1. WELL LOCATION: (Show sketch of the location below)  Nearest Town: GREENSBORD, NC	County: Guil	DRD
1103 Symmit AVE.	Depth	· DRILLING LOG
(Road, Community, or Subdivision and Lot No.)	From To	Formation Description
2. OWNER SYN/MID-STATE OILCO.		
ADDRESS 4041 MARKET ST.  (Street or Route No.)  ASTEN, PA 19014		
City or Town State Zip Code	<del></del>	<del></del>
1. DATE DRILLED		(SEE ATTACHED
4. TOTAL DEPTH 25' CUTTINGS COLLECTED YEL No	<del></del> .	DRILL LOGS
S. DOES WELL REPLACE EXISTING WELL? TYOS MINO		
6. STATIC WATER LEVEL: FT. Dabove TOP OF CASING.	<del></del>	
TOP OF CASING IS FT. ABOVE LAND SURFACE.	·	
7. YIELD (gpm): METHOD OF TEST		
8. WATER ZONES (depth):		
o, notes conce to this.	<del> </del>	· · · · · · · · · · · · · · · · · · ·
9. CHLORINATION: Type Amount	`	
10. CASING:	ti additional s	pace is needed use back of form.
Walt Thickness Depth Dlameter or Weight/Fit. Material		
From 0 To 5 FL 2" SCH 40 PUC	(Show direction and	LOCATION SKETCH  distance from at least two State Roads,
FromTo	or other map refere	
From To Ft		
11, GROUT:		
Depth Material Method	i	
From 0 To 2 Fr. Portland Coment	E-GTWOOPM LWWW1538	
From 2' To 3' Fl. Bentonite		
12. SCREEN:		STORE BUILDING
Depth Diameter Slot Size Material	<u> </u>	
From 5 To 25 Ft. 2" h 0.020 h PVC		Tank
		-/ <del>-</del> /
From To Ft h h	<del>-</del>	Variety 2 4
From To FL h h h		
13. GRAVEL PACK:  Depth Bire Material		SUMMIT AVENUE
From 3' To 25' Fl. # 2 Washed Sand		
	<del></del>	
FromToFt	_	
IN DEMONDS.		WELL AND A DO WELL DOWNERS OF THE

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

		!		
	OUNDWATER HNOLOGY INC.		E: SUN - BER: 053 MIT AVE. ENSBORO,	SUMMIT AVE. 1245445 NC
DATE 01/10/93 WEL	L NUMBER MW-7	DRILLER: FISHE	URNE DR	ILLING, INC.
CASED FROM 0 TO 5' WITH SCH 40 PVC  SCREENED FROM 5' TO 25' WITH 0.020" SLOT DRILL METHOD HOLLOW STEM AUGER  WELL DEPTH 25' WELL DIAMETER 2" DATE(S) DRILLED DECEMBER 9, 1993  ELEVATION 595.14' LOGGED BY T. WATSON				
ANNULUS COMPLETION SAI				
OTHER WELL COMPLETED WITH WELL DEPTH GRAPHIC			SAMPLE	COMMENTS
DETAIL COLUMN	ASPHALT/CRUSHER RUN: To		SAMPLE	COMMENTS
	SANDY CLAY: Grey, F-grnd.	- ;	0-3	(HAND) PID≂1.0
	silt, plastic, damp	33.13, 33.110		(17,115) 1 15-21.5
	SILTY CLAY: Orange—tan—gre	ey, little F-	3-5'	BC=3~4~5~8 PID=0.8
	grnd. sand, damp			
5	SILT: Tan-It. gry, little-trace F-grnd.		5-7'	BC=3-5-11-11 PID=0.7
	sand, little clay, damp-moist	t		
	SILT: Tan-It. gry/grn, tr. F-grnd. sand,		7-9'	BC=4-5-7-9 PID=22.5
	little clay, damp-moist, (Lab	little clay, damp-moist. (Lab Sample)		
	SILT: As above, moist-wet		9-11'	BC=7-5-7-11 PID=3.9
	SILT: Tan—or—grn/gry, little—	-some F-grnd.	13–15'	BC=5-6-8-9 PID=2.8
	sand, little clay, sl. foliation,	wet		
		· ·		
		<del></del>		
		-		
20 —	SANDY SILT: Tan-orange-gre	een, trace clay,	18-20'	BC=9-11-16-20 PID=4.6
	slight foliation, damp	<del></del>		
	CARROLITE (CAMPY OUT)	·		
	SAPROLITE (SANDY SILT): To	<del>-</del> .'	23-25'	BC=9-11-14-19 PID=2.8
	white, F to M-grnd, sand, si	igntly		
25	foliated, damp	!		
		1		

ATH CUROLPU DEPARTMENT OF NATURAL RESOURCES AND COLLEMITY DEVELOPMENT OF ENVIRONMENTAL MUNICIPENT - GROUNDWATER SECTION P.O. BOX 27647 - RALEICHUC. 27611, PHONE (819) 723-6063

### WELL CONSTRUCTION RECORD

VmW-S

FO	R OFFICE USE ONLY
Quad. No	Serial Ho.
Lat	LongPc
Minor Basin	
Basin Code	<del></del>
Header-Ent	GW-1-Ent

RILLING CONTRACTOR FISHBURNE DRILLING THE	STATE '	MEIT C	ONSTRUCTION R:
YELL LOCATION: (Show sketch of the location below)  Historical Town:	County:		ford DRILLING LOG
"Road, Community, or Subdivision and Lot No.	From	To	Formation Description
OWNERSUN / MID-STATE OIL CO.			
ADDRESS VOUI Market St.  (Street or Route No.)  Aston PA 19014  City or Town State Zb Code			
City or Town State Zb Code		<del></del>	(Please See ptached
TOTAL DEPTH CUTTINGS COLLECTED AYES AND S. DOES WELL REPLACE EXISTING WELL? Yes AND			D-11 hogs)
TOP OF CASING IS FT. ABOVE LAND SURFACE.	· ·		
. YIELD (gpm): METHOD OF TEST	·		
. WATER ZONES (depth):	· <del></del>		
CHLORINATION: Type Amount	- 、		hal affect
10. CASING:  Depth Diameter or Weight/FL Material		i addition	al space is needed use back of form.
From To Ft Scu up PVC	- (Show	direction	LOCATION SKETCH and distance from at least two State Roads. ference points)
11. GROUT:  Depth Material Method  From 47.5 To 45 Ft. Ben Londe  From 45 To 0 Ft. Mak Coment Great	ALD'S	<b>'</b>	SB-1+ [9] + SB-3
1 12. SCREEN:  Depth Diameter Slot Size Materia		, Pin	STORE BUILDING
From To FL h	<del>-</del> .	Leanner	CANON CANON TAMK PIT  CANON MARTINET  CONCINCTE  VIEW-5 9  VIEW-5 9
From To FI Z Washed Sand  From To FI FI  14. REMARKS:	, =	₩-9 <b>+</b>	SUMMIT AVENUE

1 DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NGAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

TEC:	UNDWATER HNOLOGY INC.	PROJECT NUMI	E: <u>SUN-</u> BER: <u>OC</u> 1103 Su Growner	2245445 2245445 2245445 2245445 2245445
DATE 8/18/94 WELL	NUMBER VWW-8			- Drevence Inc.
CASED FROM <u>o'</u> TO <u>so</u> SCREENED FROM <u>so'</u> TO well  Well DEPTH <u>ss'</u> Well  ELEVATION	<u>55'</u> WITH <u>0.020 SI6+</u> L DIAMETER <u>2''</u>	_ DRILL METHOD	115 / 15 D	7 - 18/94
OTHER 6" outer casine		<u> </u>	<del></del>	
WELL DEPTH GRAPHIC COLUMN	LITHOLOGICAL D	ESCRIPTION	SAMPLE	COMMENTS PID
Manual Ma	Asphali + Crusher cur CLAY: Gray, Da	SANDY	<i>C</i> -7	2.4
1	SANDY/CLAYER SILTS 2	Cowr Flor -	9-11	2.3
15 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	Sonsyl Giavey 2127: A		14-16	<u>z.</u> 2
20	SANDY S.W: Brown . F.	<del></del>	19-21	6.6
25   a x 4 x 4 x 4 x 4 x 4 x 4 x 4 x 4 x 4 x	SANDY S. 17/ SULTY SAL Mod. G., Little	Us: Brown Fing Clay Web - Satur	-	(9./
30	SANON SILT/ SILTY SPA	13: AB Web	29-31	/2./_
月年"到	SANDY SILT/SILTY SAM	o: AA. Uct	34-36	26.6
17/5 Xarre			+ +	
45 = 4			1,	
50 50	SAFROLITY (SANDY SILT	2	49-51	-
55 = 55				
60				
E 65 =		<u></u>		

ORTH CLROCHA DEPARTMENT OF KATURAL RESOURCES AND COMMENTY DEVELOPMENT DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION P.O. BOX 27547 - RUEIGHULG, 27611, PHONE (818) 723-6063

WELL	CONSTRUCTION RECORD	MW-9

FOR	OFFICE USE ONLY
Ousd. No.	
Lat-	Long Pc
Minor Bash	
Basin Code	
Header-Ent	GW-1-Ent

DATE

in transport transport and some to wall hung.

ILLING CONTRACTOR FISHPURNE DRILLING THE.	STATE WELL CO	R: 40-1070-1414-0524
WELL LOCATION: (Show sketch of the location below)  Nestest Town: Greensbord, NC	County:	PRILLING LOG
(Road, Community, or Subdivision and Lot No.)	From To	Formation Description
OWNER SUN / MID-STATE OIL CO.		
ADDRESS YOU ! Market St. (Street or Route Ho)		3
Aston PA 19014		
City of Town State 25 Occur		(Please See Attached
DATE DRILLED _ 8/19/94 USE OF WELL _Manitoring		Daril Long)
TOTAL DEPTH 24' CUTTINGS COLLECTED YES LING		
DOES WELL REPLACE EXISTING WELL? Yes MINO		
STATIC WATER LEVEL: FT. D shows TOP OF CASING, TOP OF CASING IS FT. ABOVE LAND SURFACE.		
TOP OF CASING IS FT. ABOVE LAND SURFACE.		
7. YIELD (gpm): METHOD OF TEST		
8. WATER ZONES (depth):	<del></del>	
5. HATER ZONGO (OTPINA		
9. CHLORINATION: Type Amount		
	it addition:	al apace is needed use back of form.
10. CASING:  Depth Diameter or Weight/FL Material	-	LOCATION SKETCH
From _ 7 To 9' FL 2" SCH NO PVC	- (Show direction	and distance from at least two State Road
From To Ft	or other map ref	ference points)
From ToFL	—	riset ss
		/
11. GROUT: Material Method		CHART -
From 7' To 5' Ft. Bruton: La	ALD'S	S8-2/ S8-1• [e] • S8-3
From 5' To 0 Ft. Neat Coment Growt	_   #2	
1101111	, , ,	STORE BUILDING
12. SCREEN:  Death Dismater Skit Size Material		
Debai Diamoto.		WALK WALK
rrom to to	_	TAME PIT
from To FL h h	<del>-</del> :	CONCOLUTE COMMENTE
From ToFL h h h	ASPARAGE	AGPHANLE NW-2
12. GRAVEL PACK: Depth Blae Material	ww-9 <b>÷</b>	ANA-8 7 7 7 ANA-2 0
From 24' TO 7' Fl. # 2 Washed Sound		SOFTMAN WW-3 +
FromToFL	:	SUMMIT AVENUE
14. REMARKS:		

SKINATURE OF CONTRACTOR OR AGENT

	ASE CRE VELL	ED F EENE DE ATIO ULU! ER_	ROI D F PTH DN _ S C	M@ FROM H:	9 M_ 24	WELL TO 9' 4' TO _ WELL ETION _ GRAPHIC COLUMN	UNDWATER HNOLOGY INC.  NUMBER MW-9  WITH SCH NO PYC  24' WITH 0.020 5/0+  DIAMETER 2"  LITHOLOGICAL D	DRILLER: DRILL RIG DRILL METHOD _ DATE(S) DRILLE LOGGED BY	: _ SUN BER: _ C 10 = SO FREWAY MIC 75 HOLLO D _ S - WALT	1- SUMM - A 0=224 = 445 2022 NC TDRILLING - MD - MD - MD - MD - MD - MD	-7c-5
∠̄ ₹∼	T		<del> -</del>	-	中	MWWWW	10-1-14 + C-ch-				
	7/////	71111		•		SANDY	SMUDY CLAY: Gray - De Little Silt Dan	carine Fire Gr.	z-4	5-9-8-6	41_
F	7		$\pm$		$\exists$			•	U - 1.	9-11-16-14	41
疗				5	$\exists$		SILTY SAND: Agree - To	and the second s			-1
1				•	$\exists$	9/1	Coores Con From C	• '			
Γ		1	E		$\exists$	Š.	SILTY SPND: Orange - Tar		12-8	6-8-9-12	1
1		<u>.</u>				2	Conce or Sm. Q+	-	-		
1	-  -	닭.	F	10	크	27.5	SILTY SAND: AA Dam	· · · · · ·		9-12-7-10	۷۱
1		_	E		$\exists$		SILTY SAND: PA Grad	ling to SANDY SUT	10-12	6-6-3-3	2.4
1	-		F				Fine-Wed Gr. L. H.	Le - Trans Clar Hair	(mwa)		-
1		<u> </u>			$\exists$	٢	SILT: Gray - Green - C		1	l l	24
7	<u> </u>	<u>:</u>  :	E	15		7/8	Clay Fine Sond	_	-	<u> </u>	
		<u>=</u>	<b>;</b>  =	~	=	<u> </u>	BK Min. Staini	-			
E		=	E			]	SILT: AA Wet -Sat	_	14-16	3-4-6-7	1.6
		글!	F		_	1 1	SANDY SILT: Tan . O.	•		4-4-3-4	3,3
#		<u>-</u> - :		20	_	7/5					
1	· :	늴.	E	20	Ξ	<u> </u>	Sand thin go				
-			F		_	Yann	with - maria & s	t.		44.4	<i>3</i> .3
F		긜.	:		=	<u> </u>	SILT: Orange - White		24-26	4-4-5-6	
Ł	, [	<u></u>	F		_	-	Clay trave Sin	- Sand, Slinkt			
7			F	25	=	<b>1</b>	Colintion Wot	<u> </u>		<del> </del>	
1			F	•	=	1		<del></del>		-	<u> </u>
1			E		_	‡			-	<del> </del>	
			-  -	•	=	‡	,		<del>  -</del>		
		•		30	=	]					
			E	<b>.</b>	_					<u> </u>	
ļ			F	- •	_	=		<u></u>			
}	ļ		E	•	=	‡		1			
	<b> </b>			- - 35	_	╡				<u> </u>	

## GROUNDWATER TECHNOLOGY

## Drilling Log

### Monitóring Well MW-10

Project Sun/Summit Ave. Owner Sunoco							See Site Map For Boring Location	
Location IIO3 Summit Ave., Greensboro, NC  Surface Elev. Total Hole Depth 2  Top of Casing Water Level Initial  Screen: Dia 2 in. Length 5 ft.  Casing: Dia 2 in. Length IS ft.  Fill Material SAND  Drill Co. Rock-Ray Drilling Method HOL  Driller R. Schmon Log By J. KIRKPA  Checked By Licer						Static Type/Size <u>20 SLOT in.</u> Type <u>PVC</u> ig/Core <u>CME 75</u> / STEM AUGER Permit #	COMMENTS:	
Depth (ft.) Well Completion FID (ppm)		Sample ID Blow Count/ % Recovery	X Recovery Graphic Log		USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
2- 0- 2- 4- 10- 12- 14- 16- 18- 20- 22- 24- 26- 28- 30-	74 160 95 7.5 0.0 0.4 2.8 38	11/75% 10/75% 4/100% 4/100% 6/100% 5/100%			ML	(025') Asphalt (.25-4') Light tan silty clayey fine S (4-6') Same as above.  (6-8') Light tan silty clayey fine to odor.  (8-10') Same as above.  (10-12') Same as above.  (12-14') Brown-orange mottled coar odor; Saprolite.  (16-17') Same as above.  (17-18') Light brown SILT; wet.  (18-20') Same as above.	coarse SAND: moist to wet; no	